RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/579, 503
Source:	TFWP
Date Processed by STIC:	05/25/200
-	7-7

ENTERED



IFWP

RAW SEQUENCE LISTING DATE: 05/25/2006
PATENT APPLICATION: US/10/579,503 TIME: 09:38:07

```
3 <110> APPLICANT: Commonwealth Scientific and Industrial Research Organisation
              Bayer BioScience NV
      5
              Waterhouse, Peter
              Whyard, Steven
      6
      7
              Van Rie, Jeroen
      9 <120> TITLE OF INVENTION: Insect resistance using inhibition of gene expression
     11 <130> FILE REFERENCE: BCS03-2008 WO1
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/579,503
C--> 13 <141> CURRENT FILING DATE: 2006-05-16
     13 <150> PRIOR APPLICATION NUMBER: US 60/520,306
     14 <151> PRIOR FILING DATE: 2003-11-17
     16 <160> NUMBER OF SEQ ID NOS: 12
     18 <170> SOFTWARE: PatentIn version 3.0
     20 <210> SEO ID NO: 1
     21 <211> LENGTH: 27
    22 <212> TYPE: DNA
     23 <213> ORGANISM: artificial
     25 <220> FEATURE:
     26 <223> OTHER INFORMATION: designed degenerate primer
     28 <400> SEQUENCE: 1
     29 aaaacagaag aagaggtaaa aaygara
                                                                                27
     32 <210> SEQ ID NO: 2
     33, <211> LENGTH: 28
     34 <212> TYPE: DNA
     35 <213> ORGANISM: artificial
     37 <220> FEATURE:
     38 <223> OTHER INFORMATION: designed degenerate primer
     40 <220> FEATURE:
     41 <221> NAME/KEY: misc feature
     42 <223> OTHER INFORMATION: n at 20 is c, g, a or t
     45 <400> SEQUENCE: 2
W--> 46 ggtttctggc ttcgtctggn gtrtaytt
                                                                                28
     49 <210> SEO ID NO: 3
     50 <211> LENGTH: 20
     51 <212> TYPE: DNA
     52 <213> ORGANISM: artificial
     54 <220> FEATURE:
     55 <223> OTHER INFORMATION: designed degenerate primer
     57 <400> SEQUENCE: 3
     58 tacaactcsa tcytgaccac
                                                                                20
     61 <210> SEQ ID NO: 4
     62 <211> LENGTH: 22
     63 <212> TYPE: DNA
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64 <213> ORGANISM: artificial
     66 <220> FEATURE:
     67 <223> OTHER INFORMATION: designed degenerate primer
     69 <400> SEQUENCE: 4
     70 tccatrccyt cwccbacrta cc
                                                                               22
     73 <210> SEQ ID NO: 5
     74 <211> LENGTH: 279
     75 <212> TYPE: DNA
     76 <213> ORGANISM: Aphis gossypii
     78 <400> SEQUENCE: 5
     79 aaaacagaag aagaggtaaa aatgagaatg aaacagaaaa gcgtgagttg gtgttcaaag
                                                                               60
     81 aagatggaca agaatatgct caagttacca aaatgttggg aaatggacgt ctagaagcaa
                                                                              120
     83 tgtgttttga tggtgtaaga cgactttgtc acattcgagg aaaacttagg aaaaaggtgt
                                                                              180
     85 ggatcaatca agctgacata gtattgatag gcttacgtga atatcaagat acaaaagccg
                                                                              240
     87 atgtaatttt gaaatacacc ccagacgaag ccagaaacc
                                                                              279
     90 <210> SEQ ID NO: 6
     91 <211> LENGTH: 279
     92 <212> TYPE: DNA
     93 <213> ORGANISM: Myzus persicae
     95 <400> SEQUENCE: 6
     96 aaaacagaag aagaggtaaa aacgaaaatg aaaccgagaa gcgtgaattg gtgttcaaag
                                                                               60
     98 aagatggcca agaatatgct caagttacca aaatgttggg aaatggacgt ctagaagcta
                                                                              120
     100 tgtgctttga tggtgttaaa cgactttqcc acatacqaqq aaaaacttaqq aaaaaqqtat
                                                                               180
     102 ggattaatca agctgatata gtattaataq gtttacqtqa ataccaaqac acaaaaqccq
                                                                               240
     104 atgtaatttt gaaatacaca ccagacgaag ccagaaacc
                                                                               279
     107 <210> SEO ID NO: 7
     108 <211> LENGTH: 638
     109 <212> TYPE: DNA
     110 <213> ORGANISM: Aphis gossypii
     112 <220> FEATURE:
     113 <221> NAME/KEY: misc feature
     114 <223> OTHER INFORMATION: n at 591, 592 and 637 is a, c, q or t
     117 <400> SEQUENCE: 7
     118 tcatggctgg actacgaggc catctacgac atctgccgcc ggaacctgga catcgagcgg
                                                                                60
     120 cccacgtaca cgaacctcaa ccggctgatc gggcagatcg tgtcgttccc atcacgggcg
                                                                               120
     122 tegetgeggt tegacggege getgaacgte gacetgaceg agttecagae gaacetggtg
                                                                               180
     124 ccgtacccgc gcattcactt cccgctggcc acgtacgcgc cggtcatatc ggccgagaag
                                                                               240
     126 gcgtaccacg agcagctgtc cgtggccgaa atcaacccaa cgcgtgcttc gaaccggcca
                                                                               300
     128 aaccagaatg ggtcaagatg cgacccgcgg cacggcaagt acatgggcct gctgcaatgc
                                                                               360
     130 tgtaaccgcg gcgacgtcgt gcccaaggac atgaacgcgg ccatcgccac catcaagacc
                                                                               420
     132 aagaggacca tcgtgtacgt cgactggtgc ccgaccgggt tcaaggtggg catctactac
                                                                               480
     134 cageegeega cegtggtgee gggggegate tggeeaaggt geagegggeg gtgtgeatgt
                                                                               540
W--> 136 tgtccaacac gacggccatc tccgaggcgt gggcccggct cgaccacaag nntgacctga
                                                                               600
     138 tgtacgctga cacgcgcgtc cgtccactgg tacgtang
                                                                               638
     141 <210> SEQ ID NO: 8
    142 <211> LENGTH: 628
    143 <212> TYPE: DNA
    144 <213> ORGANISM: Myzus persicae
    146 <220> FEATURE:
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```
147 <221> NAME/KEY: misc_feature
     148 <223> OTHER INFORMATION: n at 3, 113, 128, 137, 509, 615, 617, and 627 is a, c, g, or
     151 <400> SEQUENCE: 8
W--> 152 tgnacacagt gactgtgcat tcatggtcga taatgaagcc atctatgaca tctgccgtcg
                                                                                60
     154 taatetegat attgaacgtg cecaettaca etaaettgaa tegtettatt ggneagattg
                                                                               120
     156 tgtcttcnat cacagentet etcegttteg atggtgeeet caatgttgae ttgaetgaat
                                                                               180
     158 tocagaccaa tttggtccca tacccccgta ttcatttccc attggtcact tatgcaccaq
                                                                               240
     160 tcatctccgc tgaaaaggct taccatgaac aattgtccgt atcagaaatc actaacgctt
                                                                               300
     162 gttttgaacc agccaaccaa atggtgaaat gtgatccacg tcatggcaaa tacatggctt
                                                                               360
     164 gttgcatgtt gtaccgtggt gatgttgtac ccaaagacgt caacgctgcc attgcttcca
                                                                               420
     166 tcaagaccaa gagaacattc agtttgttga ctggtgtcca actggtttca aagttgggta
                                                                               480
     168 tcaactacca acccccaacc gtggtaccng gtgtgacttg gtctaaagta caacgtgctg
                                                                               540
     170 tctgcatgtt gtccaacact acagctattg ctgaagcttg ggtctaggtt tggtaccaca
                                                                               600
     172 agttcgtaac ttgcnantac gtccacna
                                                                               628
     175 <210> SEQ ID NO: 9
     176 <211> LENGTH: 30
     177 <212> TYPE: DNA
     178 <213> ORGANISM: artificial
     180 <220> FEATURE:
     181 <223> OTHER INFORMATION: designed primer sequence
     183 <400> SEQUENCE: 9
     184 cccaagettt geetggtgtg tggegaeegg
                                                                                30
     187 <210> SEQ ID NO: 10
     188 <211> LENGTH: 30
    189 <212> TYPE: DNA
     190 <213> ORGANISM: artificial
     192 <220> FEATURE:
     193 <223> OTHER INFORMATION: designed primer sequence
    195 <400> SEQUENCE: 10
    196 cccaagctta tcctggaaat agacaagtcg
                                                                                30
    199 <210> SEQ ID NO: 11
    200 <211> LENGTH: 408
    201 <212> TYPE: DNA
    202 <213> ORGANISM: Myzus persicae
    204 <400> SEQUENCE: 11
    205 tcgtccggtt accattacaa cgctctcaca tgcgaaggat gcaaggggtt cttccggagg
                                                                                60
    207 agcatcacca agaacgccgt gtaccagtgc aagtacggca acaattgcga aatcgacatg
                                                                               120
    209 tacatgaggc ggaagtgcca ggagtgccgg ctgaaaaaat gcctgaccgt cggcatgagg
                                                                               180
    211 cctgaatgtg ttgtacctga agttcaatgc gcagtaaaaa gaaaggagaa aaaagctcaa
                                                                               240
    213 cgagaaaaag ataaaccaaa ttctactaca gacatttctc ctgaaataat aaaaatagaa
                                                                               300
    215 cctacagaga tgaagattga atgtggtgaa ccaatgataa tgggcacacc tatgccgact
                                                                               360
    217 gtaccttacg tqaaaccttt qaqttctqaa caaaaaqaac tqatccac
                                                                               408
    220 <210> SEQ ID NO: 12
    221 <211> LENGTH: 1173
    222 <212> TYPE: DNA
    223 <213> ORGANISM: Myzus persicae
    225 <220> FEATURE:
    226 <221> NAME/KEY: misc feature
    227 <223> OTHER INFORMATION: n at 704 is c, g, a, or t
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	230	<400> SEQUI	ENCE: 12					
	231	tgccagcgca	tttgcgacca	gtgggacaga	ttaggtagct	tgacacagaa	acggagaact	60
	233	gacttggatg	atgcagaaaa	aatattagag	aaaattgata	tattgcattt	ggaattcgct	120
	235	aagagagcag	ctcctttcaa	caactggttg	gatggtacac	gtgaagattt	agtggacatg	180
	237	ttcattgtac	acactgttga	ggaaatccaa	ggattgattg	atgcacatgg	acaatttaag	240
	239	gctactttgt	ctgatgctga	caaagagtac	aactctatca	ttggactggt	caaagatgtt	300
				ccaaatacct				360
	243	acttctagtg	atttaagcaa	aaaatggtct	gaagtgaaac	atttagtgcc	ccaaagagac	420
	245	acgaccctcc	aagctgaact	cagaaaacaa	caaaacaatg	agatgctacg	tcgtcaattt	480
				gggtccttgg				540
	249	atcggtatgg	gattgcaggt	tctctggaag	atcaattgca	ccaactgaaa	caatttaggg	600
				aagagtacaa				660
W>	253	tcaactgtac	aaaaatacca	aatacctggt	ggtcttcaga	accngtacac	tactttgact	720
			_	atggtctgaa				780
				aaaacaacaa				840
				tccttggatt				900
	261	ggtatgggat	tgcaaggttc	tctggaagat	caattgcacc	aactgaaaca	atacgaacag	960
	263	aatgtgtttg	catacaagcc	acatattgag	gaattagaga	aaatccacca	agctgtacaa	1020
				caggtatact			0 0 00	1080
				cataaatcgc		aagtagaaaa	ccaaatattg	1140
	269	accagagact	ccaaaggcat	cacccaggag	cag			1173

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 05/25/2006 PATENT APPLICATION: US/10/579,503 TIME: 09:38:08

Input Set : A:\bcs03-2008.st25 seqlist.txt
Output Set: N:\CRF4\05252006\J579503.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; N Pos. 20 Seq#:7; N Pos. 591,592,637 Seq#:8; N Pos. 3,113,128,137,509,615,617,627 Seq#:12; N Pos. 704

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,9,10

VARIABLE LOCATION SUMMARY

PATENT APPLICATION: US/10/579,503

DATE: 05/25/2006 TIME: 09:38:08

Input Set : A:\bcs03-2008.st25 seqlist.txt
Output Set: N:\CRF4\05252006\J579503.raw

Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:2; N Pos. 20

Seq#:7; N Pos. 591,592,637

Seq#:8; N Pos. 3,113,128,137,509,615,617,627

Seq#:12; N Pos. 704

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/579,503

DATE: 05/25/2006 TIME: 09:38:08

Input Set : A:\bcs03-2008.st25 seqlist.txt
Output Set: N:\CRF4\05252006\J579503.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:46 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:2

L:46 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0

L:136 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:7

L:136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:540

M:341 Repeated in SeqNo=7

L:152 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:8

L:152 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0

M:341 Repeated in SeqNo=8

L:253 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:12

L:253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:660